

## FLUID EJECTION DEVICE WITH STAGGERED INK DROP GENERATORS

ABSTRACT OF THE DISCLOSURE

The present invention includes as one embodiment a fluid ejection device coupled to an ink supply and having multiple printing modes, including a sufficient number of ink drop generators fluidically coupled to the ink supply device and formed in the fluid ejection device and arranged along at least three axes that are substantially parallel and spaced apart from each other to provide printing resolution of at least 600 dots per inch with each printing mode. The plurality of ink drop generators is arranged along four axes that are substantially parallel and spaced transverse to each other and wherein the plurality of ink drop generators arranged along the four axes are staggered with respect to each of the axes to decrease an effective pitch of the fluid ejection device to approximately one-fourth that of a plurality of ink drop generators arranged along a single axis.